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NEWS 4	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS 5	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS 6	JUN 25	CA/CAplus and USPAT databases updated with IPC reclassification data
NEWS 7	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS 8	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS 9	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS 10	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS 11	JUL 28	CA/CAplus patent coverage enhanced
NEWS 12	JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS 13	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 14	JUL 28	STN Viewer performance improved
NEWS 15	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS 16	AUG 13	CA/CAplus enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS 17	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS 18	AUG 15	CAplus currency for Korean patents enhanced
NEWS 19	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
NEWS 20	SEP 18	Support for STN Express, Versions 6.01 and earlier, to be discontinued
NEWS 21	SEP 25	CA/CAplus current-awareness alert options enhanced to accommodate supplemental CAS indexing of exemplified prophetic substances
NEWS 22	SEP 26	WPIDS, WPINDEX, and WPIX coverage of Chinese and and Korean patents enhanced
NEWS 23	SEP 29	IFICLS enhanced with new super search field
NEWS 24	SEP 29	EMBASE and EMBAL enhanced with new search and display fields
NEWS 25	SEP 30	CAS patent coverage enhanced to include exemplified

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                  prophetic substances identified in new Japanese-
                  language patents
 NEWS 26  OCT 07  EPFULL enhanced with full implementation of EPC2000
 NEWS 27  OCT 07  Multiple databases enhanced for more flexible patent
                  number searching

 NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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FILE LAST UPDATED: 8 Oct 2008  (20081008/ED)

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=> s (annular (2w) chormatography) (L) (reaction (2w) zone)
         34999 ANNULAR
             4 ANNULARS
         35000 ANNULAR
                 (ANNULAR OR ANNULARS)
             1 CHORMATOGRAPHY
             4 CHORMATOG
             5 CHORMATOGRAPHY
                 (CHORMATOGRAPHY OR CHORMATOG)
       3229965 REACTION
       2322853 REACTIONS
       4338137 REACTION
                 (REACTION OR REACTIONS)
        318931 ZONE
        115472 ZONES
        392681 ZONE
                 (ZONE OR ZONES)
L1           0 (ANNULAR (2W) CHORMATOGRAPHY) (L) (REACTION (2W) ZONE)

=> s annular (2w) chromatography) (L) reaction
UNMATCHED RIGHT PARENTHESIS 'MATOGRAPHY) '
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s (annular (2w) chromatography) (L) reaction
         34999 ANNULAR
             4 ANNULARS
         35000 ANNULAR
                 (ANNULAR OR ANNULARS)
        344306 CHROMATOGRAPHY
           161 CHROMATOGRAPHIES
        344420 CHROMATOGRAPHY
                 (CHROMATOGRAPHY OR CHROMATOGRAPHIES)
        676332 CHROMATOG
          3661 CHROMATOGS
        678994 CHROMATOG
                 (CHROMATOG OR CHROMATOGS)
        778387 CHROMATOGRAPHY
                 (CHROMATOGRAPHY OR CHROMATOG)
       3229965 REACTION
       2322853 REACTIONS
       4338137 REACTION
                 (REACTION OR REACTIONS)
L2          14 (ANNULAR (2W) CHROMATOGRAPHY) (L) REACTION

=> s l2 and zeolite
        108966 ZEOLITE
        105147 ZEOLITES
        132248 ZEOLITE
                 (ZEOLITE OR ZEOLITES)
L3           1 L2 AND ZEOLITE

=> d l3 ibib abs

L3   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:        2005:673161  CAPLUS
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DOCUMENT NUMBER: 143:155680
TITLE: Method for the production of a chemical reaction product with the aid of a fixed-bed reactor
INVENTOR(S): Morbidelli, Massimo; Mazzotti, Marco; Prior, Adalbert; Prior, Joachim; Lang, Frank
PATENT ASSIGNEE(S): Prior Engineering A.-G., Switz.
SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005068042	A1	20050728	WO 2005-AT2	20050113
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AT 2004000042	A	20050715	AT 2004-42	20040115
AT 413338	B	20060215		
EP 1703957	A1	20060927	EP 2005-700003	20050113
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
US 20080132722	A1	20080605	US 2007-586065	20070824
PRIORITY APPLN. INFO.:			AT 2004-42 A	20040115
			WO 2005-AT2 W	20050113

AB Disclosed is a method for producing at least one chemical reaction product by chemical reacting one or several reactants that is/are optionally dissolved in one or several solvents and is/are supplied as a feed stream by bringing the same in contact with a heterogeneous catalyst in a continuously operated fixed-bed reactor which is filled with a particle bed, a continuous annular chromatograph (CAC) that is filled with the particle bed being used as a fixed-bed reactor in which the at least one reaction product is formed and purified while the at least one purified reaction product as well as optionally provided secondary products and/or non-reacted reactants are withdrawn at a different, predetd. azimuthal position of the annular chromatograph, resp. The inventive method is characterized in that only one type of particle material is used in a single particle bed as both a formation catalyst and a chromatog. medium for purifying the at least one reaction product in the particle bed.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s l2 and (ion (2w) exchange (2w) resin)
1281018 ION
785095 IONS
1691844 ION

```
                (ION OR IONS)
         615033 EXCHANGE
          18612 EXCHANGES
         624164 EXCHANGE
                (EXCHANGE OR EXCHANGES)
         680266 RESIN
         441283 RESINS
         832674 RESIN
                (RESIN OR RESINS)
          29493 ION (2W) EXCHANGE (2W) RESIN
L4            2 L2 AND (ION (2W) EXCHANGE (2W) RESIN)

=> d l4 1-2 ibib abs

L4   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2005:513144  CAPLUS
DOCUMENT NUMBER:          143:192343
TITLE:                    Continuous matrix assisted refolding of
                          α-lactalbumin by ion exchange chromatography
                          with recycling of aggregates combined with
                          ultradiafiltration
AUTHOR(S):                Machold, Christine; Schlegl, Robert; Buchinger,
                          Wolfgang; Jungbauer, Alois
CORPORATE SOURCE:         Department of Biotechnology, University of Natural
                          Resources and Applied Life Sciences, Vienna, A-1190,
                          Austria
SOURCE:                   Journal of Chromatography, A (2005), 1080(1), 29-42
                          CODEN: JCRAEY; ISSN: 0021-9673
PUBLISHER:                Elsevier B.V.
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
AB   Continuous matrix assisted refolding (MAR) can be achieved on a solid
     support by using a continuous chromatog. system.  Recycling the aggregate
     fraction, simultaneously formed during a refolding reaction, can
     further increase the refolding yield.  Due to the nature of this
     reaction, aggregates are the main reason for a refolding yield
     below stoichiometric conversion.  A preparative continuous annular
     chromatog. system (P-CAC) equipped with an ion
     exchange resin was used to continuously refold the model
     protein α-lactalbumin.  For this purpose, this protein was
     denatured, reduced and adsorbed on the ion exchange
     resin.  Elution was performed with or without redox reagents in
     the buffer system permitting fast formation of the native disulfide bonds.
     In the case redox reagents were present, the protein refolds then during
     its residence time on the matrix.  However, aggregate formation is also
     increased and refolding yields are lower.  Tightly bound aggregates were
     removed from the column by 2 M guanidinium hydrochloride.  In order to
     increase the system yield, this aggregate fraction was recycled after
     lowering the conductivity by ultradiafiltration and adjustment of the protein
     concentration by dilution  For on-column refolding, recycling of aggregates at
a
     recycling rate of 0.17 increased the system yield from 25% to 30%.  An
     algorithm was developed to show interdependencies of the single
     influencing parameters.  The operability of the system was demonstrated
     but limitations due to instability of the P-CAC, especially inhomogeneous flow
     and peak wobbling, have to be considered.
REFERENCE COUNT:          23    THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS
```

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1993:512605 CAPLUS
DOCUMENT NUMBER: 119:112605
ORIGINAL REFERENCE NO.: 119:20153a,20156a
TITLE: Simultaneous biochemical reaction and separation in a rotating annular chromatograph
AUTHOR(S): Sarmidi, M. R.; Barker, P. E.
CORPORATE SOURCE: Dep. Chem. Eng., Univ. Aston, Aston Triangle/Birmingham, B4 7ET, UK
SOURCE: Chemical Engineering Science (1993), 48(14), 2615-23
CODEN: CESCAC; ISSN: 0009-2509
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Simultaneous biochem. reaction and separation has been carried out successfully for the first time in a continuous rotating annular chromatograph (CRAC) by inverting sucrose to glucose and fructose using the enzyme invertase. The chromatograph was packed with 14.5 dm3 Dowex 50W-X4 calcium form ion exchange resin. Results from the initial expts. indicated that complete conversion could be achieved for feed concns. of up to 50% w/v sucrose and at feed throughputs of up to 15 kg sucrose per m3 resin/h. Numerical simulation for the combined biochem. and separation on a CRAC has also been carried out. The model was solved using a finite difference method and the results indicate a good agreement between the exptl. and the predicted elution concentration profile.

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L2 14 S (ANNULAR (2W) CHROMATOGRAPHY) (L) REACTION
L3 1 S L2 AND ZEOLITE
L4 2 S L2 AND (ION (2W) EXCHANGE (2W) RESIN)

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